

IN THE CLAIMS:

The following listing of claims will replace all prior listings of claims in this application:

1. – 6. (Cancelled)

7. (Currently Amended): A method by a dedicated processor for allocating resources for executing tasks in an application in a multi-processor computing environment, the method comprising:

providing a script to the dedicated processor prior to beginning execution of the application, the dedicated processor being dedicated solely to executing the script and the allocation of resources to ~~one or more~~ a plurality of other processors, the script ~~containing~~ including a map of execution sequences including an execution sequence of one or more tasks for each of the ~~one or more~~ plurality of other processors;

parsing the script to determine resources required by each of the ~~one or more~~ plurality of other processors based on the map of execution sequences; and

allocating the resources immediately prior to execution of each of the one or more tasks to achieve the execution of the one or more tasks based on the map of execution sequences included in the script without any prior requests from any of the one or more other processors, wherein whereby resource allocation is synchronized when the resources are needed by the plurality of other processors for the execution of the one or more tasks, and each of the plurality of other processors is configured to be able to determine what tasks can be performed without having to wait to receive information from a different one of the plurality of other processors.

8. (Original): The method of claim 7 wherein the script is an I/O processor script.

9. (Currently Amended): A predictive resource allocation system for a multi-processor computing environment having a plurality of processors, comprising:

a plurality of other processors for executing an application;

a dedicated processor dedicated solely to providing resource allocation to the plurality of other processors;

a script file containing information related to the resources required by the plurality of other processors to execute the application including a map of execution sequences including an execution sequence of one or more tasks for each of the plurality of other processors;

the dedicated processor running the script file and parsing the script to determine the resources required by the plurality of other processors prior to beginning execution of the application; and

the dedicated processor dynamically allocating resources prior to execution of each of the one or more tasks to achieve the execution of the one or more tasks based on the map of execution sequences included in the script, wherein resource allocation is synchronized when at the time the resources are needed by the plurality of other processors for the execution of the application, and each of the plurality of other processors is configured to be able to determine what tasks can be performed without having to wait to receive information from a different one of the plurality of other processors.

10. (Cancelled)

11. (Currently Amended): A method for allocating resources for use by a first processor in execution of an application comprising a plurality of tasks in a multi-processor computing environment, the method comprising:

providing a script to the first processor prior to beginning execution of the application, the first processor being dedicated solely to parsing the script and to allocation of resources to a plurality of other processors, the script containing a map of execution sequences including an execution sequence of tasks for each of the plurality of other processors;

parsing the script to determine the execution sequence of the tasks for each of the plurality of other processors to execute the tasks and to determine the

resources required by each of the plurality of other processors to execute the tasks; and

allocating the resources to the plurality of other processors ~~such that resource allocation is synchronized when the resources are needed by the plurality of other processors~~ for execution of the application by the plurality of other processors based on the map of execution sequences included in the script, without any prior requests from any of the plurality of other processors, whereby wherein resource allocation is synchronized when the resources are needed by the plurality of other processors for the execution of the tasks, and each of the plurality of other processors is configured to be able to determine what tasks can be performed without having to wait to receive information from a different one of the plurality of other processors.

12. (Previously Presented): The method of claim 11 wherein allocating the resources to the plurality of other processors in the multi-processor environment further comprises dynamically allocating the resources at the time needed for the execution of the tasks.

13. (Previously Presented): The method of claim 7 wherein each of the plurality of other processors executes multiple tasks as part of a single application.